

2017年8月2日 18:48

实验结果：程序正常运行，液晶屏显示温度，红外遥控器接收正常。



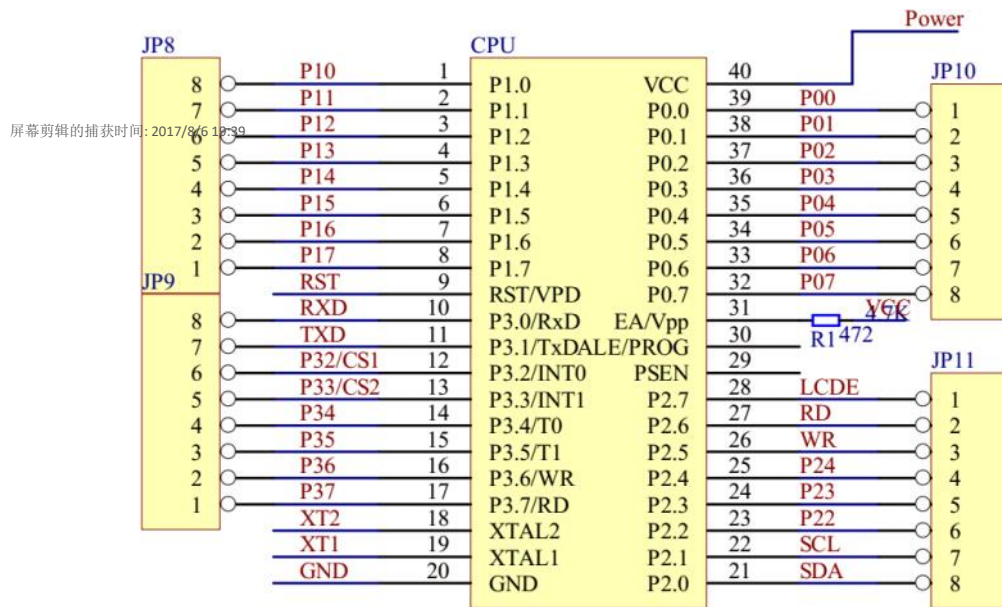
```

graph TD
    Start([开始]) --> ADInit[AD初始化]
    Start --> TimerInit[定时器初始化]
    Start --> IRInit[红外温控初始化]
    
    ADInit --> StopFlag{判断暂停标志}
    StopFlag -- 是 --> StopFlag
    StopFlag -- 否 --> TimerFlag{判断定时标志}
    TimerFlag -- 是 --> DataCollect[温度采集]
    DataCollect --> DataOutput[/温度数据/]
    DataOutput --> Display[输出数据到显示屏]
    Display --> StopFlag
    
    TimerInit --> TimerSignal[/定时产生时间信号/]
    TimerSignal --> 2s{是否到了2s}
    2s -- 是 --> TimerData[初始化定时数据]
    TimerData --> TimerFlag2{产生定时标志}
    TimerFlag2 --> StopFlag
    2s -- 否 --> StopFlag
    
    IRInit --> IRSignal{是否接收到红外信号}
    IRSignal -- 是 --> ExternalInterrupt[产生外部中断]
    ExternalInterrupt --> IRData[/接收红外信号/]
    IRData --> IRStop{判断是否为暂停信号}
    IRStop -- 是 --> StopFlag2[产生暂停标志]
    StopFlag2 --> StopFlag
    IRSignal -- 否 --> StopFlag
  
```

The flowchart illustrates the control logic for the temperature measurement system. It begins with an initial state leading to three parallel initialization steps: AD initialization, timer initialization, and infrared temperature control initialization. The AD initialization path leads to a decision on the pause flag; if not paused, it checks for a timing flag, collects temperature data, and outputs it to the display. The timer initialization path generates a timing signal and checks if 2 seconds have elapsed; if so, it initializes timing data and generates a timing flag, which then leads to the pause flag check. The infrared initialization path checks for an infrared signal; if received, it generates an external interrupt, receives the signal, and checks if it is a pause signal, which also leads to the pause flag check. All paths converge at the '判断暂停标志' (Check pause flag) decision point, which loops back to itself if paused or proceeds to data collection/output if not.

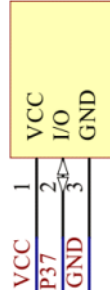
```
Ds18b20WriteByte(u8 dat); //写数据
```

分区 电子设计学习 的第 1 页

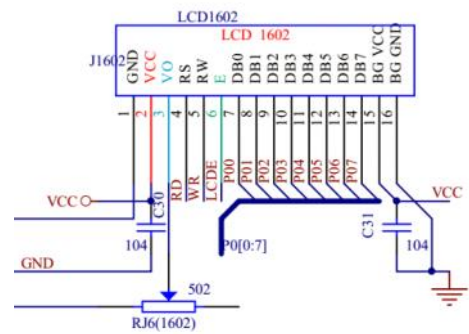
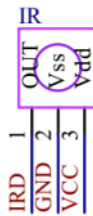
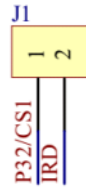


温度

DS18B20



红外



屏幕剪辑的捕获时间: 2017/8/6 19:39

实验结果实况：

